

Call for Invited Sessions Proposals

Authors are encouraged to organize invited sessions focused on topics of special interest. The invited session proposal should contain the letter from the organizer explaining the scope and importance of the proposed theme. The list of 5 – 6 contributions including the title, authors' full names, affiliations, e-mails and extended abstracts (1 – 2 pages) of each paper should be attached. The invited session proposals should be submitted to the Organizing Committee by December 15, 2002. They will be reviewed according to standard procedures.

Related Events:

- The 13th IFAC Symposium on System Identification, (SYSID-2003) 27 – 29 August, 2003, Rotterdam, The Netherlands, <http://www.sysid2003.nl>
- The European Control Conference ECC03, 1 – 4 September 2003, Cambridge, England, <http://conferences.iee.org/ECC03>
- COMADEM 2003 – International Conference on Condition Monitoring and Diagnostic Engineering Management, 27 – 29 August, 2003, Vaxjo, Sweden, www.ips.vxu.se

International Program Committee

Co-Chairs:

The Nobel Laureat 2000 in Physics, Academician of RAS, **Zh. Alferov** (Ioffe Institute, St.Petersburg, Russia),
Academician of RAS, **V. Peshekhonov** (CSRI "Elektropribor", St.Petersburg, Russia)

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H. Kimura (Japan)	L. Viola (USA)
J. Kurths (Germany)	V. Yakubovich (Russia)
A. Kurzhanski (Russia)	

National Organizing Committee

A.Fradkov (Chair)
B. Andrievsky, A. Churilov, V. Shiegin,
V. Smirnova, D. Tomchin (Secretary)

Important Dates:

Deadline for submission: **December 15, 2002.**
Notification of acceptance: **March 15, 2003.**
Camera ready copy: **May 15, 2003.**
Conference: August **20 – 22, 2003.**



**International
Conference**



PHYSICS and CONTROL (PhysCon 2003)

**Saint-Petersburg, RUSSIA
August, 20–22, 2003**



SECOND ANNOUNCEMENT AND CALL FOR PAPERS

Organizers:

- St. Petersburg Scientific Center of RAS
- St. Petersburg Group of Russian National Committee of Automatic Control
- St. Petersburg Informatics and Control Society
- Institute for Problems of Mechanical Engineering
- St. Petersburg State University

In Cooperation with:

- Russian Academy of Sciences (RAS)
- The IEEE Control Systems Society
- The IEEE Circuits and Systems Society
- The European Physics Society (EPS)
- The EPS Interdivisional Group on Experimental Physics Control Systems

Scope of the Conference

During last decade there was tremendous growth of activities in the scientific fields related to both Physics and Control theory: nonlinear dynamics, chaos control and synchronization, micro- and nanotechnologies, self-organization and complexity, etc. New horizons were opened and new exciting applications emerged. Experts with different background starting to work together need better mutual understanding to achieve deeper insight into new problems and to jointly discover new frontiers of science.

A major goal of the Conference is to bring together researchers from different scientific communities and to gain some general and unified perspectives in the studying of controlled systems in physics, chemistry, biology and other natural sciences. Special sessions will be devoted to control of oscillations and chaos to continue tradition of the conferences "Control of Oscillations and Chaos" held in St. Petersburg in 1997, 2000.

The topics for the Conference PhysCon 2003 include but are not limited to:

- **Nonlinear dynamics and control;**
- **Quantum information and control;**
- **Molecular dynamics and control;**
- **Control of bifurcations, oscillations and chaos;**
- **Modeling and identification of physical systems;**
- **Complexity and adaptivity;**
- **Synchronization in micro- and macroworld;**
- **Self-organization and control of nanostructures;**
- **Microelectromechanical systems;**
- **Applications in science and technology** (control of lasers, control of plasma, beam control, control of turbulence, chaotic mixing, control in chemistry, biology, medicine).

Working Language

English will be the official language of the Conference. No simultaneous translation will be provided.

Submission

The Organizing Committee invites the prospective authors to submit their full text draft papers (4-6 two-column pages) by **December 15, 2002** to the Organizing Committee. All contributions will be subject to reviewing.

The title should be followed by the authors' names, affiliations, addresses (including FAX and E-mail address) and abstracts (60–100 words). Electronic submission in PDF or PS formats is preferable.

Location

Saint Petersburg is located in the mouth of Neva river near the Finnish Gulf of the Baltic Sea. There are daily flights of major international carriers to the International airport "Pulkovo" of St. Petersburg. It also can be reached from Helsinki, Finland by plane (0.5 hours) or by train (4 hours).

Conference Venue

The Conference will take place in the Imperial Anichkov Palace – one of the residences of the Tsars' family in several generations, beautifully located in the historical center of the city. Some pictures of the Anichkov Palace can be found on the Conference website.

Social Program

Saint Petersburg (the former capital of Russia) with about 5 millions inhabitants is often called "The Venice of the North" and recognized as one of the most beautiful cities in the world. Various guided tours over St. Petersburg and suburbs including visits to Tsars' palaces and museums will be organized during both the Conference days and the weekends. The Conference will take place soon after celebration of the 300th anniversary of St. Petersburg and the city is expected to look still more beautiful.

Address of Organizing Committee

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